Week-8
LAB-4.

```
import java.util.Scanner;
abstract class Shape {
    double d1;
    double d2;
    Shape(double a, double b) {
        d1 = a;
        d2 = b;
    }
    abstract void printArea();
}
class Rectangle extends Shape {
    Rectangle(int a, int b) {
        super(a, b);
    }
    void printArea() {
        double area = d1 * d2;
        System.out.println("Area of rectangle: " + area);
    }
}
class Triangle extends Shape {
    Triangle(int a, int b) {
        super(a, b);
    }
    void printArea() {
        double area = d1 * d2 / 2;
        System.out.println("Area of triangle: " + area);
    }
}
```

Scanned with CamScanner

```
class Circle extends Shape {
    Circle(double rad) {
        super(rad, rad);
    }
    void printArea() {
        double area = 3.14 * d1 * d1;
        System.out.println("Area of circle:" + area);
    }
}
class Main {
    public static void main(String args[]) {
        Scanner xx = new Scanner(System.in);
    for(;;) {
        System.out.println("Enter ur choice");
        System.out.print("\n1: rectangle \n2: triangle
                \n3: circle\n");
        int ch = xx.nextInt();
    switch(ch) {
        case 1: System.out.println("Enter breadth &
                length of rectangle");
                int x = xx.nextInt();
                int y = xx.nextInt();
                Rectangle r = new Rectangle(x, y);
                r.printArea();
        break;
        case 2: System.out.println("Enter base &
                height of triangle");
                int z = xx.nextInt();
                int w = xx.nextInt();
```

Scanned with CamScanner

```
Triangle t = new Triangle(z, w);
t.printArea();
break;
case 3 : System.out.println("Enter radius of
                circle");
double rad = xx.nextInt();
circle c = new circle(rad);
c.printArea();
break;
}
}
}
}
```

Scanned with CamScanner

Week-8
LAB-5

```
import java.util.Scanner;
abstract class Account {
  String cName, accType;
  long accNo;
  double bal;
  final double minBal = 10000.0;
Account(String cName, long accNo, double bal,
                String accType) {
      this.accNo = accNo;
      this.cName = cName;
      this.bal = bal;
      this.accType = accType;
  }
  abstract void addBal(double amt);
  abstract void dispBal();
  abstract void withBal(double amt);
}
class curr_acct extents Account {
    curr_acct(String cName, long accno, double bal){
      super(cName, accNo, bal, "current");
      System.out.println("Name :" + cName + "\t
                        accNo: " + accNo + " bal:" +
                              bal + " type: " + acctype);
    }
    void addBal(double amt){
       this.bal += amt;
    }
    void display(){
      System.out.println("Your Balance is: " + this.Bal
                                                    );
    }
```

Scanned with CamScanner

```
    void withBal (double amt){
        this.bal-= amt;
        checkBal.();
    }
    void checkBal (){
        if (this.Bal < minBal){
        this.bal - = this.bal * 0.02;
        System.out.println(" Avail.Balance :" + this.
                                            bal);

        }
}
}
class Sav-acct extents Account{
    Sav-acct (string cName, long accNo, double bal){
        super (cName, accNo, bal, "Savings");
}
    void addBal (double amt){
        this.bal + = amt.
        addInt ();
}
    void addIntr(){
        this.bal + = this.bal * 0.07;
}
    void dispbal (){
        System.out.print(" balance : " + this.bal);
}
    void withBal (double amt){
        this.bal - = amt;
    }
}
```

Scanned with CamScanner

```
class AccountMain{
public static void main(string [] args){
 Scanner sc=new Scanner (System.in);
 Double amt;
 int flag=0;
 while (flag==0){
  System.out.println("1:corrct ac. \n2: savgs");
  int ch=sc.nextInt();
  Switch (ch){
   case 1:
    System.out.println("Enter name & acc
        .no. of the customer");
    String name=sc.next();
    long account-no=sc.nextLong();
    Cury-acct c=new curr-acct(name,
          account-no, 50,000);
    System.out.println("\n Current-acct\n");
    int flag1=0;
     while(flag1==0){
      System.out.println("1:Add amount
       \n2: Display Balance \n3: Withdra
        -w");
      int ch1=sc.nextInt();
       Switch(ch1){
       case 1:
       System.out.println("Enter amt to
                 be added:");
       amt=sc.nextDouble();
       C.addBal(amt);
       break;
```

Scanned with CamScanner

```
case 2:
  C.dispBal();
  break;
  case 3:
  System.out.println("Enter amt to be
                        withdraw:");
   amt = sc.nextDouble();
   C.withBal(amt);
   break;
  default:
   flag1 = 1;
   }
}
 break;
 case 2:
   System.out.println("Enter the name & acc no.
       of the customer");
   String name1 = Sc.next();
   Long account_no2 = Sc.nextLong();
   Sav_acct S = new Sav_acct(name1,
      account_no2, 40000);
   System.out.println("\n Savings_acct\n");
   int flag2 = 0;
    while (flag2 == 0){
     System.out.println("1: AddBal \n 2:
              DisplayBal \n 3: Withdraw");
    int ch2 = Sc.nextInt();
    Switch(ch2) {
     case 1:
       System.out.println("Enter amt to be
                    added:");
```

Scanned with CamScanner

```
amt = sc.nextDouble();
S.addBal(amt);
break;
case 2:
S.dispBal();
break;
case 3:
System.out.println("Enter amt to be
                    withdrawn:");
amt = sc.nextDouble();
S.withBal(amt);
break;

default;
flag2 = 1;
}
}
}
}
}
}.
```

Scanned with CamScanner